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**Abstract**

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The invention relates to an X-ray image converter having a screen (8), which can be excited by X-rays to store luminous electrons and which is assigned means for scanning illumination and means (6) which convert the result of the illumination into electrical signals, as well as a device (16) for converting the image signal sequence thus obtained into a visible image. In such arrangements, the grainy or patterned structure of the storage material layer that is normally present causes interference in the image. In order to avoid this disadvantage, the invention provides a homogenous storage layer (8), which can be constructed, for example, as a single crystal or a transparently vapour-deposited layer. An X-ray image converter

constructed according to the invention is particularly suitable for use in medical X-ray diagnostics. 

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